SPE NEWS

Vol. 4 No. 6

JUNE, 1948

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SPE NEWS

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Volume 4 **Number 6**

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ATlantic 4201
Cleveland 2, Ohio

DR. JESSE H. DAY, Editor
Case Institute of Technology
CLEVELAND 6, OHIO

Editorial Advisory Board
J. H. DuBois **Carl J. Frosch**

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INDEX

MEMBERSHIP ROSTER 9

ARTICLES

LOGOQUANT — by J. Bjorksten 40
HISTORY OF EASTERN NEW ENGLAND 3
HISTORY OF WESTERN NEW ENGLAND — by F. J. Donohue 7
RHODE ISLAND AND S. E. MASSACHUSETTS — by F. P. Stearn 6
PLASTICS IN NEW ENGLAND — by F. J. Donohue 2

SECTION NEWS

BUFFALO 4
CENTRAL OHIO 41
CLEVELAND 41
CONNECTICUT 4
DETROIT 41
GOLDEN GATE 41
MEXICO ..... Back Cover
MIAMI VALLEY 4
QUEBEC 6
R. I. & S. E. MASS. 41
ROCHESTER 4
SECTION NOTES ..... 7 & Back Cover

ADVERTISERS

ABA Tool and Engineering Co. 20
Acme Marking Eqiupment Co. 13
A. G. Spalding & Bros. 22
Boston Woven Hose & Rubber Co. 11
Cadillac Stamp Co. 27
C. F. Church Mfg. Co. ..... Back Cover
DeBell & Richardson, Inc. 23
Defiance Machine Works, Inc. 21
Di Pierro Mfg. Co. 34
Durite Plastics Div., the Borden Co. ..... Front Cover
Holander & Johnson, Inc. 22
Hydraulic Press Mfg. Co. 17
Imperial Molded Products 30
Improved Paper Machinery Corp. 8
The Lea Manufacturing Co. 19
L & L Heat Treating Co. 3
Miskella Infra-Red Co. 40
Moldcraft Engineering 25
Noma Electric Corp. 24
Northern Industrial Chemical Co. 37
Nutmeg Chrome Corp. 18
Pacific Plastics 14
Parkwood Corporation 28
Plastic Engineering, Inc. 33
Reichold Chemicals 5
Rogers Plastic Corp. 29
Romanoff Electric Motor Service 16
Una-Craft Engineering Co. 17
The Watson-Stillman Co. 15

HOW DO YOU LIKE our new format? The amount of news, and the number of articles reaching the SPE News has grown to such an extent that we are thinking of changing over to a three column magzine, simply to get more news to our members each month. This month is an experiment, and whether the News will change to the three columns, as in this issue, or whether it will stick to the old two column style depends on you. Drop us a postcard, and tell us what you want.

Remember the old proverb, "Ask, and you shall receive"? That was never truer than now, as regards the News. We do the best we can to give you, the members, what you want; but since mind-reading is a rather tough assignment, we prefer statements from you as to what you like, and what you don't like about the SPE News. Any suggestions you have for the improvement of the magazine are gratefully received; it's **your** publication, and **you** can make it what you want — if you want articles on a particular topic, let us know and we'll get the material from the best men in the business. Or if you want more or less Section News, Personals, etc., or if you have suggestions as to the make-up of the News, then let us know.

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PLASTICS IN NEW ENGLAND

By FRANK J. DONOHUE

To most people who were born there, New England is more than a geographical region. It is a state of mind, a set of mental attitudes, a way of life. To those outside New England, the name usually denotes Yankee thrift, fine craftmanship, rugged independence and cautious Republican conservatism, grouped in a setting of woods, hills and small stony farms. This conception is at best only a part truth and far short of reality.

People elsewhere do not generally realize the size and scope of New England industries. They know little of the leather and shoe industry of Brockton, Lynn and Lowell, the rubber and tire plants of Naugatuck and Chicopee, the many expert manufacturers of machine tools, the producers of ball and roller bearings, of hardware, clothing, carpets, furniture, household appliances, jewelry, silverware, clocks, paper, textiles, aircraft parts and plastics.

New England is, in fact, the home of these and many other industrial enterprises. It has been famous for years throughout the country if not the world, for the excellence of its machine tools. Its achievements in this and allied manufacturing fields have far exceeded its past reputation as a cotton and wool textile center.

An attempt to list all of the large manufacturing plants located in New England, and to describe their varied products would be futile in such a brief article as this. It would do scant justice to them and would sound like a Chamber of Commerce brochure. Further, we of the Western New England Section of S. P. E. can speak with any semblance of authority only of those segments of its industry which are in the Western part of the region. To many of these, plastics are important; they serve or are served by plastics in many forms.

In plastics, also, New England has its traditions. Some of the earliest producers and fabricators of cellulose nitrate were located in this area. In 1881, the American Xylonite Company was founded in Adams, Massachusetts to produce combs and toilet articles from cellulose nitrate. Soon afterward the Fiberloid Corporation began in Newburyport, Massachusetts the manufacture of 'celluloid' collars, toilet articles and toys. After considerable growth, this business was moved to Springfield, Massachusetts and in 1938 became the Plastics Division of Monsanto Chemical Co.

The Viscoloid Corporation, established in Leominster, Massachusetts during this same early period, also produced and fabricated cellulose nitrate. It was subsequently acquired by duPont. It has served as the neucleus for the growth in that area of probably the largest center for injection molding of thermoplastics in the United States. Our fellow-members in the Eastern New England Section will be able to tell more about that.

While we can learn from the past, it is equally instructive and usually more important to look to the present and the future. Let us look, therefore, at the plastics industry of Western New England as it is today.

At Pittsfield, Massachusetts, in the Berkshires, the headquarters of the Plastics Division of General Electric is located. Synthetic phenol is produced here and from it the large number of Textolite phenolic molding compounds used in molding operations at Pittsfield and at General Electric molding plants elsewhere in New England and in other parts of the country.

Springfield, Massachusetts is the site of the Plastics Division of Monsanto Chemical Company, one of the largest producers of polystyrene. Here, also, are produced Resinox-phenolic resins and molding materials, vinyl butyral plastic for safety glass and for cloth coating and cellulose nitrate and cellulose acetate sheet plastics.

The Rogers Corporation at Manchester, Connecticut manufactures a large variety of special insulating papers and cellulose fibre compositions using phenolic resins, rubber and other special binders. Their phenolic molding board blanks and core stock are well known in the molding and laminating fields.

The Plastics Division of American Cyanamid Corporation have large Research laboratories at Stamford, Connecticut where fundamental and applied research is carried on constantly on urea and melamine plastics. A newly expanded plant for the production of these materials is also located at Wallingford, Connecticut, primarily to serve the New England region.

Holyoke, Massachusetts is an important paper-making center and here the Hurlbut Paper Company and Morart Company manufacture an extensive line of plain and decorative papers for phenolic laminates.

Reed-Prentice, widely and well-known manufacturers of injection molding machines are located in Worcester, Massachusetts.

Monson, Massachusetts is the site of the molding plant of C. F. Church Company, one of the largest manufacturers of toilet seats and sanitary equipment. Thermosetting, thermoplastics and rubber are all molded at this plant. This company now has in operation a new modern injection plant which is a model of advanced plant design and material handling equipment layout.

The name of A. G. Spalding & Brothers, Inc., is known wherever sports are played in America. Their plant, founded in 1876, is located at Chicopee, Massachusetts. This company has striven always to keep abreast of developments in plastic materials, and collaborated with duPont in the development of the first nylon tennis strings. They produced the first rackets strung with this material. They are now, in the course of a continuing Research program, developing plastic golf clubs. At the present time, they mold golf club ferrules. They have their own rubber molding plant for the production of golf club grips and caps, golf balls and tennis balls.

The American Optical Company at Southbridge, Massachusetts has a large plant for the production of spectacle lenses and frames and other optical goods. They are large users of cellulose nitrate for spectacle frames and also mold by injection cellulose acetate and other thermoplastics into spectacle frames and similar products.

Wico Electric Company located in West Springfield, Massachusetts is one of the country's large producers of farm lighting and ignition equipment. Phenolic molded parts are used extensively by this company in making farm tractor magnetos and similar parts.

DeBell & Richardson, consultants on plant layout and equipment and mold design have their offices and laboratories in Springfield, Massachusetts. This firm plays an important part in the development of new products and processes in the New England area and elsewhere.

Hartford, Connecticut is known as the insurance center of the country. It should be equally well-known as the location of such large and important molders and fabricators of plastics as the Plax Corporation, the Fuller Brush Company, Arrow-Hart & Hegeman Electric Company, and the Silex Corporation. All of these companies mold or fabricate plastics for their own use or for other customers.

The Plax Corporation use specially designed equipment for the extrusion of many forms of thermoplastics in-

cluding polystyrene, polyethylene, cellulose acetate and cellulose acetobutyrate. They produce rods, tubes, sheet and film for many varied uses.

Arrow-Hart & Hegeman Electric Company is one of the country's large suppliers of electrical control and wiring device parts. Urea and phenolic molding compounds are used in large quantities in their operations.

The Pro-phy-lac-tic Brush Company with plants at Northampton, Massachusetts has a long history in the fabrication of plastic materials. Many years ago, they began the fabrication of combs, tooth brush handles and brush backs from cellulose nitrate. As newer plastics became available, they expanded their operations into the injection molding field, producing first parts for their own use and later expanding into the custom molding field. At the present time, they rank high among the country's molders of thermosetting and thermoplastic materials.

Noma Electric Company, whose plant is located at Holyoke, Massachusetts, while a comparative newcomer in this region, has been known for years as a large manufacturer of Christmas tree lights and lighting accessories. Production of plastic parts for these lights is carried out on a large scale in their Holyoke plant. They have already begun to diversify their molding activities into other lines including custom molding.

One could continue at great length describing the many other plastic molding and fabricating plants of New England. Pages could be devoted to a description of their origins, growth and present activities. With no thought of slighting these many companies but only because of limitations of space and time, we will list some of these other producers here. We hope that at a later date it will be possible to give more detailed descriptions of their activities. Here, then, is a list of other molding plants located in Western New England:

Adams Plastics Co., Holyoke, Mass.
Bridgeport Molding Co., Bridgeport, Conn.
Bryant Electric Co., Bridgeport, Conn.
North & Judd Mfg. Co., Willimantic, Conn.
Frank Parizek Co., Willimantic, Conn.

(Continued on Page 4)

EASTERN NEW ENGLAND OFFICERS

Jack Queeny, President; George McLean, Vice-President; R. Widmer Hubb, Treasurer; and George Pickering, Secretary.

HISTORY OF EASTERN NEW ENGLAND

Under the guidance of Bill Dunnican, a group met at the Parker House, Boston, Mass., on March 12, 1947, and organized a local chapter electing a Steering Committee and officers as follows:

L. Barnett, President, Fisher Products; J. P. Queeney, Vice President, Boston Woven Hose & Rubber Company; G. B. Makepeace, Treasurer, Dow Chemical Co.; G. K. McLean, Secretary, Parkwood Corp.; D. A. Sharpe, Bolta Co.; R. W. Hubbs, Harwid Co.; Dr. Paul Zottu, Consultant; E. V. Painter, Fabric Research Laboratories; P. F. Huidekoper, Plaskon Div., L. O. F. Glass Co.

Also in attendance were M. S. Haas, Bolta Co.; E. Day, Bolta Co., and R. R. Peoples, Parkwood Corp.

The first official meeting was held at the Hotel Puritan at which time J. H. DuBois gave an enlightening talk on "The Place of S.P.E. in the Plastics Industry", and Dr. A. E. Dietz, M.I.T., presented the technical portion of the program.

In the Fall of 1947, due to the transfer of President Lou Barnett to Texas, Jack Queeney assumed the guiding roll.

An increasing interest in the organization has been maintained by the ability of Bob Peoples, Pres. Huidekoper and Mel Haas to obtain such competent speakers as Walt Noble, Fabricon Products Co.; Paul Zottu, Consultant; H. M. Richardson, DeBell & Richardson; Frank Rideout, Bakelite Corp.; I. W. Hutchinson, Dow Corning Corp.; G. S. Laaff, Bolta Company; G. V. Sammet, Jr., Northern Industrial; W. O. Bracken, Hercules Powder Company.

Through our roving emissaries, Makepeace, Huidekoper and Pickering, the section is kept posted on the progress of the Western and Southeastern New England groups.

Although in its infancy, the section boasts a healthy membership of thirty-six (36) and anticipates an ambitious program for the 1948-1949 season.

G. K. McLean.

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31st SECTION FORMED

By WILLIAM J. DUNNICAN of Durite, the Borden Company

On Friday night, May 14th at the Barnum Hotel, Bridgeport, Conn., a Steering Committee met to form the Connecticut Section of SPE. The following Officers and Directors were elected:

President, Mr. Milton S. Greenhalgh
General Electric Co., Bridgeport, Conn.

V. Pres., Mr. Ernest A. Johnson
American Cyanimid Co., Stamford, Conn.

Secretary, Mr. Edward Seim
Bryant Electric Co., Bridgeport, Conn.

Treasurer, W. C. Monahan
Monaplastics, Inc., Georgetown, Conn.

Directors:

Mr. Charles d'Emery
Plastic Products Co., South orwalk, Conn.

Mr. Lew Pentland
Durez Plastics and Chemical Co., Wallingford, Conn.

Mr. George Kaistner
Plastic Manufacturers Co., Stamford, Conn.

Mr. R. Klinger
Remmington Rand Co., Bridgepor,t, Conn.

Mr. William Smith
Waterbury Companies, Waterbury, Conn.

A meeting of the directors June 11th made plans for the September meeting.

BUFFALO

By J. CLARKE CASSIDY, Jr.

The March meeting held on April 2, to avoid conflict with Good Friday, attracted 55 members, guests, and their wives. Following cocktails and an excellent dinner at the Park Lane, Miss Marion Gough, Feature Editor of "House Beautiful" magazine, presented her impressions of consumer attitudes toward plastics as gained during her supervision of the October 1947 issue of "House Beautiful", which was devoted to plastics. Miss Gough stated that she had found the reaction of the average consumer toward plastics was "n. g."; that she was impressed by the predominance of bad design; and that she felt the plastics industry was treating a wonderful group of materials with amazing triviality.

As solutions, Miss Gough suggester that designers, not plastic engineers, design plastic products — these to stand on their own merits rather than being imitative of designs in other materials. Informative labeling and advertising and some method of keeping inferior products off the market were other suggested means of improving consumer acceptance. Miss Gough concluded with the thought that she looked forward to the day when the housewife, when confronted with a plastic product, would change her now typical statement, "Oh, it's plastic," to "It's very nice, but it isn't plastic!"

A display of fabricated vinyl sheet products by Cox Plastics, Inc. and the presentation of vinyl packaged bathsalts by Miss Reta Lloyd of Reta Lloyd, Inc., to the ladies were other features of an excellent meeting.

On April 30, 32 members and guests heard Hugh Cameron of W. T. La Rose & Associates, Inc., give a comprehensive review of the applications of electronic heating.

The plastics industry in this area was well represented in the Buffalo Industrial Progress Exposition, the focal point being a Buffalo Section S.P.E. educational exhibit. Space for this exhibit was donated by the Buffalo Chamber of Commerce after a sufficient number of plastic firms had agreed to participate directly. Donations from Durez Plastics & Chemicals, Inc.; Durite Plastics Division of The Borden Company, Norton Laboratories, Inc.; Plaskon Division, Libbey-Owens-Ford Glass Company and Varcum Chemical Corporation were used to defray the expenses incurred in setting up the exhibit. Thanks are due to the above and to Jim Veverit, Hi Nathan, and Jim Cox for the large amount of time and work which they donated to make this S.P.E. participation possible.

ROCHESTER

By GEORGE A. PECK

The May meeting was held May 18th at Lorenzo's Restaurant. This meeting concludes the Spring Program. The next meeting of the Rochester Chapter will be in September. The Membership Committee is conducting its drive through the summer and will attempt to set as many members as possible before the September meeting.

Miss Marion Gough, Feature Editor of House Beautiful Magazine, presented her impressions of the consumer's attitude towards plastics.

MIAMI VALLEY

By JOHN L. RUSSELL

The April and May meetings of Miami Valley Section were held at Middletown and Hamilton, respectively, to provide a common meeting gound for Dayton and Cincinnati members.

A new style of meeting, one preferred by the membership, was held on Thursday, April 1 at the Hotel Manchester in Middletown. It began with dinner in the Ballroom and was followed by a Panel Discussion on "Steam vs. High Frequency Preheating of Plastics". The Discussion leaders were Carroll Jensen, Chief Engineer of the Kurz-Kasch Co., explaining the merits of High Frequency preheating, and Robert Gerdes, Sales-Manager and Merle Nelson, Supt. Plastic Moldings Corp., Cincinnati, extolling the virtues of Steam Preheating. A lively open discussion period followed which was participated in by the entire membership. This type of meeting proved very popular and likely will be repeated with a different topic in the near future.

Plastics *(Continued from Page 3)*

Plastic Molding Corp., Sandy Hook, Conn.

Rogers Plastics Corp., N. Wilbraham, Mass.

D. C. Scott, Hartford, Conn.

George Scott Mfg. Co., Wallingford, Conn.

Veeder-Root Corporation, Hartford, Conn.

Waterbury Companies, Waterbury, Conn.

Worcester Molded Plastics, Worcester, Mass.

We must not forget the important part played in plastic molding by the mold builders and tool makers. No molded plastic part is any better than the mold in which it is made and the tool makers play an indispensable part in supplying the molds, tools, jigs and fixtures required in our molding plants. Among the important tool makers in the Western New England area are:

Parker Stamp Works, Hartford, Conn.

A.B.A. Tool & Mfg. Co., Manchester, Conn.

Springfield Tap & Die Co., Springfield, Mass.

Reliance Tool Co., Bridgeport, Conn.

Wiremold Co., Hartford, Conn.

L & L Heat Treat Co., Hartford, Conn.

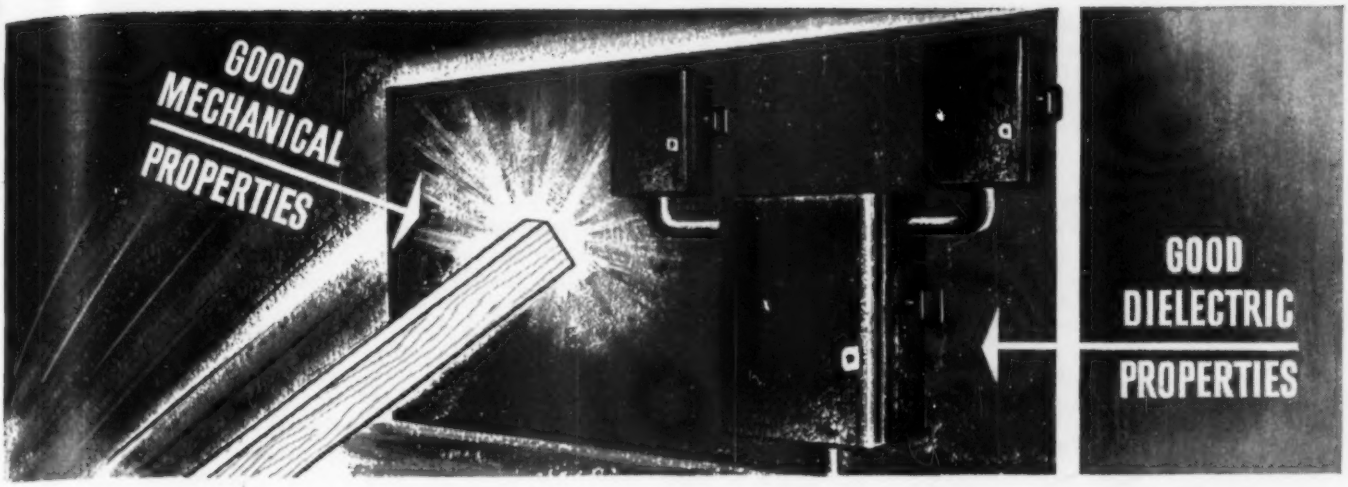
Nutmeg Chrome Co., Hartford, Conn.

DiePiero Mfg. Co., Worcester, Mass.

Hollander & Johnson, Worcester, Mass.

This is a brief and necessarily limited catalog of the activities of Western New England in the plastics and allied fields. The business of these companies is, of course, not restricted to New England. Their sales are national in scope.

The record of the plastics industry here has been one of steady growth. It already occupies an important place in the industrial life of New England and we feel sure that in the years to come, plastics will play an increasingly large role in the future development of this great industrial region.



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RHODE ISLAND & S. E. MASSACHUSETTS

By F. P. STEARNS

The founding and successful operation of a number of establishments dealing in the manufacture and processing of plastic materials as well as molding tools and equipment lead to a general interest in this section for the practice of better plastics engineering. In the fall of 1946 a number of men from these establishments began meeting informally to discuss the prospects of forming a group with mutual interests and ultimately organizing to become a chartered section in the society of plastics engineers.

Messrs. A. H. Angell, Arthur Richardson, John Stenberg, William Dunnican, Rudolph L. Jacob, and E. Sheldon Smith did the pioneering work and organization which led to the chartering of the section on January 1, 1947. These men have devoted much time and effort to building the section and establishing it among the engineering societies of this part of the country.

Meetings during the spring of 1947 took place at the Hotel Biltmore in Providence, Rhode Island. At the first meeting, Mr. J. H. Dubois, then National Vice President of S.P.E. addressed a group of 50 members and guests on the purposes, activities and organization. A most interesting poll was conducted among the audience regarding occupational interests in the various phases of plastics engineering for use in arranging suitable programs which would be of most value. The program committees have been using this information to good advantage in planning interesting and educational programs.

The meetings during the spring proved most interesting and the section grew rapidly. Often members and guests would gather for dinner at the Hotel Biltmore before the meetings making it a social event as well as educational. The speakers and their subjects were of benefit to the audience. Mr. Frank Donahue, Plastics Division of Monsanto Chemical, delivered a talk on thermosetting plastics. Mr. Tospel, of Parker Kalan Co. talked on fastenings. Mr. Kevelle's, Celanese Corp., subject, "Selling Means Better Plastics", pointed out that plastic materials must become products in their own right with recognized and standard uses and applications established for them through better plastics engineering and marketing under actual names rather than under the glamorized plastics theme.

The film "The Formica Story" was shown at one meeting in conjunction with Mr. R. L. Foote's informative talk on "Laminated Plastics". Applications for these materials were discussed and samples were shown. Mr. W. J. Connelly. Manager, Consumer Relations Division, Bakelite Corp. delivered a most interesting and informative talk on the use of Vinyl and Polethylene Resins in the textile field.

In the fall of 1948, the section was extremely fortunate in becoming affiliated with the Providence Engineering Society in Providence. As an affiliate, the section was allowed to use the auditorium in the Engineering Society building on Angell Street in Providence as a meeting place and the members of the section share in the use of its library and facilities as well as being welcome at the Engineering Society meetings and other affiliated organizations' meetings. This step did much toward establishing the Rhode Island and Southeastern Mass. Section as one of the progressive engineering societies in Providence, and this year has seen a large growth in membership and activities.

This year the programs have involved special phases of plastics processing and manufacture, the scope covering specialities in the field. Mold designs and techniques as well as materials and applications were covered. Another phase was that of education, courses and curricula taken by students interested in entering the field of design and application.

Mr. Edmond Spitzig and Mr. Islyn Thomas talked on Moulding Design and the Importance of Die Hobbing. Mr. John E. Alcott, of Rhode Island School of Design, spoke on Product Development in Plastics, as well as curricula offered the student interested in design and development in the plastics field. Mr. John K. Honish, Bakelite Corp., talked on the molding of Vinylite and Polyethylene. His talk covered tips on molding as well as properties of the products and proper mold design. Mr. W. T. LaRose spoke on "High Frequency Heating in the Plastics Industry". Mr. Michael M. Suba spoke on "Extrusion of Thermoplastic Insulations". Mr. Robert F. McTague spoke on "The Use of Vinyl Polymers for Metal Finishing".

The officers and founders of the section wish to take this opportunity to thank the members of the section for their splendid cooperation and interest which has helped to build the society during the past year and a half of its existence. Without this interest and help, the section would not have attained its place among the engineering societies nor would the programs have been of such value to those participating. Membership is still capable of being much improved and it is hoped that the future will see many manufacturing establishments being served by their representatives who attend our meetings and become active members of the society.

QUEBEC

By J. A. MAJOR

The Society of Plastics Engineers held its monthly meeting at the Montreal Technical School on May 17.

The speaker was Mr. F. Rice of the Canadian Industries Limited and his talk dealt with the relationship between production and sales.

Efficiency of production must be based and created by the efficiency in selling.

The saleability of an item depends on 3 factors: usefulness, quality and price. From the mere field of a novelty to the indispensability of an household necessity, usefulness is the prime motor of sales, but quality is its fuel.

The adaptations of price to the relative value of the product and the actual market capacity is also essential.

A given merchandise is not yet sold because it has saleability. It has to be distributed, announced and promoted in order to overcome the unknown feeling in the customer that he will not buy it.

Advertising, one of the tests of selling, sometimes is represented as an expense matter, is indeed a money saver, because the volume of business it creates justifies the mass production which is so well known to be the reason for price popularity.

Demonstrations in which one can see, handle, taste, or operate the actual thing he may buy and service in having the item at the time it is asked for are also two important tools of selling.

The sales will germinate into the inquiry, objections and resistance will be cut by an adequate demonstration and the crop will be harvested in the form of the order obtained.

The demonstration and order signing are the two final steps in which the production department must help the sales organization in order to present the public with a product which it endorses and. because of its sales merits, keeps on the market.

Business exists only with public permission and that is how free enterprise, actually criticized and checked by public acceptance, can and does maintain and enhance our standards of living through the cooperation of the public, sales, and productions department.

WESTERN NEW ENGLAND

By FRANK J. DONOHUE

Western New England was founded by nine perspiring individuals who met on a sultry night in July, 1946 at the Hotel Sheraton, Springfield, Mass. at the urging of Bill Dunnican. The writer was one of these.

We were all animated by a deep interest in plastics and were employed in various parts of the plastics field. Without too much urging and after considerable discussion of the objectives of SPE and the work accomplished by other sections then in existence, the first moves were made to set up the Western New England Section.

The original directors and officers of the Section were as follows: Mario J. Petretti, Noma Electric Co., President; Frank J. Donohue, Monsanto Chemical Co., Vice Pres.; Jack T. F. Bitter, Parker Stamp Works, Secretary; George Carlson, Arrow-Hart & Hegeman, Treasurer; Stanley Ellinghanm, Wico Electric Co., Director; E. T. Gray, General Electric Co., Director; Henry Richardson, DeBell & Richardson, Director; W. S. Larson, DeBell & Richardson, Director; T. C. Roberts, LaPointe Plascomold, Director.

Our first speaker's meeting was held in September, 1946 and at this meeting Mr. George Whitehead of Improved Paper Machinery Company, Nashua, New Hampshire gave a talk on problems connected with injection molding equipment.

The section was officially accepted by the National Headquarters in January, 1947 and has continued a steady although not spectacular growth. We have, at present, approximately 50 members with further applications pending. We have held regular monthly speakers' meetings since September, 1946 and have made every effort possible to obtain speakers on topics of general interest to our members. We are encouraged to believe that we have been successful in this aim in view of the good attendance at these meetings and the lively discussion periods that have usually followed them.

Topics from these meetings have ranged from talks on new plastic materials to discussions of molding problems, and have also included a number of talks on molding equipment and newer mold building techniques, including casting and the use of powdered metals.

Henry Richardson, who has acted as our Program Chairman since the formation of the Section, has been of invaluable assistance to us in organization of these programs and obtaining speakers.

We have not as yet undertaken any tivities or educational work in plas- extensive program of professional activities, although such steps are definitely planned for the future. We have been concerned up to the present with building up our membership and laying solid foundations for future development of the Section and for more extensive participation in professional activities on both a Sectional and National basis in the future.

The progress made in our Section up to this present time has involved a great deal of work on the part of many of us. This has, however, proven enjoyable, particularly in retrospect. Our meetings have had a somewhat informal atmosphere, but we have purposely held to this attitude in an effort to bring out the maximum response from our members and to encourage full participation of those attending each meeting.

We look forward with considerable confidence to a period of further growth and of useful service to our members in this Section and hope to take an increasing part in the National activities of SPE.

W. New England Officers

Mr. Frank J. Donohue, President of the Western New England Section of SPE received his B.S. degree in 1927 and chemical engineering degree in 1930 from the College of the City of New York.

He was employed for two years by the Bakelite Corporation and the following two years as an instructor in general chemistry at the College of the City of New York.

He joined the Resinox Corporation in 1934. This became a part of the Plastics Division of Monsanto Chemical Company in 1939. At present, Mr. Donohue is Manager of Technical Service on thermosetting molding materials in the Plastics Division of Monasnto Chemical Company.

Mr. S. L. Young, Vice President of the Western New England Section of SPE, joined the C. F. Church Mfg. Company in 1928 at their Washington, New Jersey plant in the Cost Department.

In 1933, he became Plant Manager of their Molding Division in Monson, when this division was set up. In 1946 he was made Vice President of the company.

Mr. Edward W. Vaill, Secretary of the Western New England Section, graduated from Colgate University in Hamilton, New York in 1932. He was employed by the Bakelite Corporation July, 1932 and after spending two years in intensified training courses at the Bound Brook and Bloomfield, N. J. plants, was engaged in special Bakelite molded packaging development work in the New York office. In August, 1937 he was transferred to the New England territory and has been engaged in sales and service of Bakelite molding materials in this territory.

Mr. Jack T. F. Bitter, treasurer of the Western New England Section of SPE, received his A.B. degree from Colgate University in 1932.

He has had extensive experience in the toolmaking field, and is at present the Secretary and General Manager of Parker Stamp Works, Hartford, Conn., builders of plastic molds and metal stamps and dies.

Mr. Bitter has been a Director of this section since it was founded, and was Secretary of the section in 1947.

SECTION NOTES

ST. LOUIS provided an interested audience for **Dan Otto's** talk on "Unusual Types and Applications of Plastics" May 25th at the Melbourne Hotel. **Dan Otto,** of Plastics Parts and Sales, has long been one of St. Louis' most active members. Movies of new products and developments were shown, and **Otto Wulfert** of Wagner Electric Co., provided the usual fine attendance prize.

PHILADELPHIA met May 18th at the Franklin Institute to hear **Sven L. Moxness** speak on "Present Developments in Steam Preheating of Phenolic Materials". Their April meeting featured **Jock Honisch,** development engineer of the Bakelite Corp., who spoke on "Vinyls and Polythenes".

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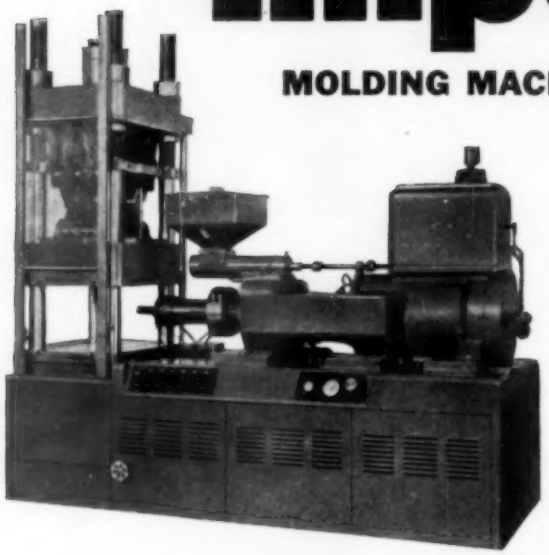


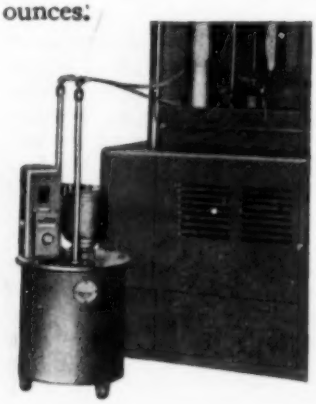
Type VF Injection-Compression Machine

The Impco Type VF may be used for:

(1) Straight injection molding of thermoplastic materials
(2) Injection-compression molding of thermoplastic materials
(3) Compression molding of thermosetting materials
(4) Plunger or transfer molding of thermosetting materials

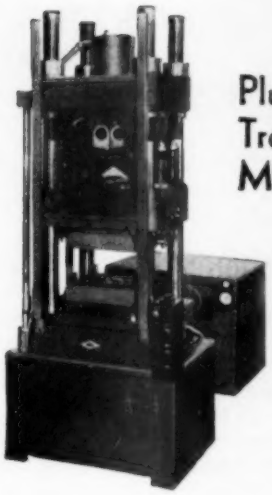
Unusual results are obtained by combining a vertical clamping unit with a horizontal injection unit. In the vertical unit is a compression ram which operates up through, but independently of, the stationary die platen.

Capacities: 1½, 2, 8, 12, 16, and 22 ounces.



Units for Controlling Mold Temperatures

By maintaining the proper mold temperature this unit offers many advantages in both injection and injection-compression molding.



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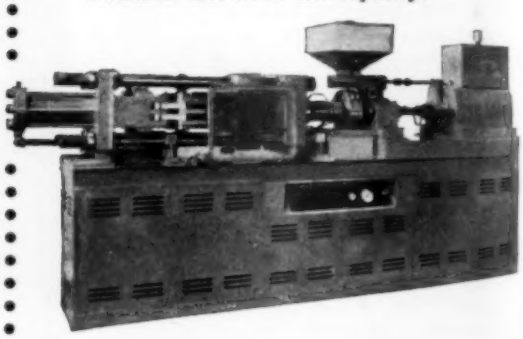
This 350-ton machine is the fastest press of its type. Faster loading of pre-forms, faster cull removal and shorter plunger travel are made possible because the high speed transfer cylinder is located *beneath* the stationary platen.

Another unique feature is the 7 to 1 ratio between the clamping mechanism and transfer cylinder. Pressure on either can be adjusted as desired as they are powered by separate pumps.

Available also in 50-ton capacity.



Injection Machine

The Impco HF is an efficient high speed machine for straight injection molding. Mechanical features include an improved hydraulic system and heating cylinder. All parts are accessible for easy adjustment. Capacity: 4 ounces.

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Compression Molding Presses, from 25 to 1000 tons

Polishing and Laminating Presses, fully hydraulic, from 50 to 1000 tons

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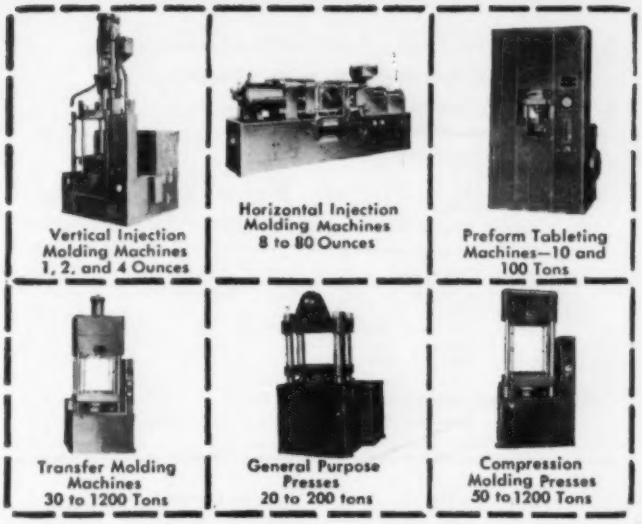

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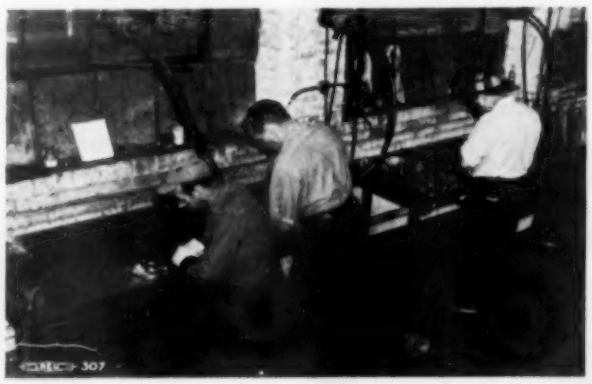

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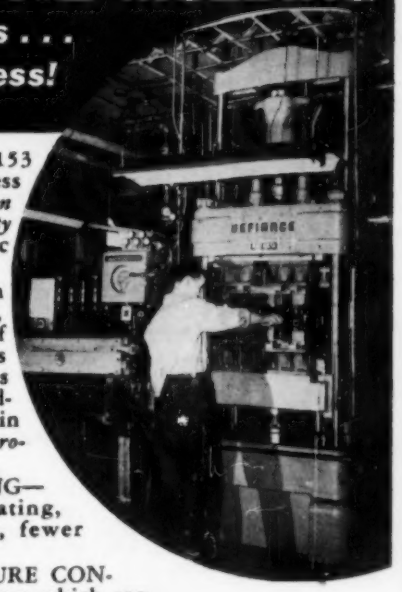

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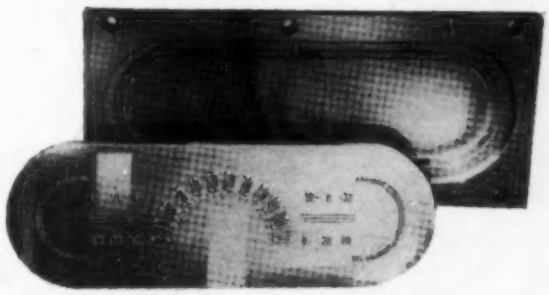

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LOGOQUANT: SURFACE TREATMENT FOR POLYSTYRENE

By DR. JOHAN BJORKSTEN
President, Bjorksten Research Laboratories

A new surface treatment for polystyrene known as "Logoquant" has been developed by the Bjorksten Research Laboratories in Chicago, for the Nash-Kelvinator Corporation. The Bee Chemical Company has been licensed to manufacture the material and make it available to all the plastic industry.

A study by the Nash-Kelvinator Corporation revealed that polystyrene would be excellently adapted for many uses in the automotive field if certain desirable characteristics could be imparted to it. The characteristics desired were: resistance to marring, ability to be repolished and resistance to common cleaner fluids including gasoline and oil which often cause crazing in addition to attacking the plastic part directly.

These characteristics are now possible in "Logoquant" treated polystyrene. As a result of this development, it is now possible to use inexpensive polystyrene in many applications known previously only to more costly materials.

"Logoquant" is simply applied by either dipping or spraying. Although "Logoquant" is not a paint or lacquer and fuses or alloys with the polystyrene surface rather than merely coating it, dust-free conditions during application are necessary for a uniform covering and even surface gloss. Drying is achieved either by use of oven warming or infra-red lamps in 15-20 minutes. A slightly longer drying period is required without heat.

"Logoquant" imparts to polystyrene a permanent gloss that is 18% more resistant to marring than the untreated plastic, resists the attack of solvents, increases transparency, does not water spot and reduces dust attraction.

Modifications have grown from this treatment: "Logoquant UV" screens ultraviolet light and retards the yellowing of polystyrene. "Logoquant" will soon be available in metallic forms, clear and pigmented colors.

The development of "Logoquant" forsees the widened use of polystyrene in the automotive industry and such diverse fields as radio, refrigeration, plastic wall tile, packaging displays, cosmetic enclosures and numerous others.

TABLE I

Improvements in Surface Properties Obtained by Logoquant Treatment

The following is a comparison between a representative untreated molded polystyrene, and the same surface, treated with Logoquant:

	Polystyrene Untreated	Same Logoquant treated
Mar resistance (A.S.T.M. method D-675-44) (No. 80 carborundum grit falling from 25 in.) effect on surface transparency	82%	100%*
Re-polish ability, recovery of surface transparency from above test, on polishing with cotton cloth	Marred spot removed with difficulty	Marred spot readily repolished
Light transmission, % of normal incident beam	73%	85%
Light scattering, diffuse transmitted light (% Haze)	6.4	1.8
Attraction for dust	Strongly attracts dust	Attraction reduced
Gloss	Good	Excellent
Resistance to solvents:		
Toluene	Immediate attack	Resists
Mineral Oil	Attacked	Resists
Gasoline	Immediate attack	Resists
Turpentine	Immediate attack	Resists
Carbon Tetrachloride	Immediate attack	Resists

* On the same scale, the mar resistance of a good spar varnish is 92% and of the hardest molded plastic we obtained commercially at about 3 times the sot of polystyrene, 107%.

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GOLDEN GATE

By JOHN G. ROBB

The Golden Gate Section of the Society of Plastics Engineers met at The Lucca Restaurant in San Francisco May 11th to hear a talk by Mr. Marcel Vogel, well known lighting engineer. Mr. Vogel spoke on "Black Light and what it means to the Plastics Engineer." He discussed Fluorescence and Phosphorescence and their use in safety and display advertising. He illustrated his talk with various displays, including an unscheduled disclosure of a fluorescent laundry mark on Bob Aker's shirt. The speech was followed by an active question and answer period.

Leonard Faber briefly outlined plans for the meeting to be held June 17th. Mr. Faber will be moderator of a round table discussion at that time.

Also announced was a meeting on Pre-Packaging to be addressed by Mike Gerow in August. Mr. Gerow has promised to outline the prepackaging program on which his Professional Activities committee is working.

CLEVELAND

By PHYLLIS SLOAN

The May meeting of the Cleveland Section was held at the new Union Club Building of Case Institute of Technology.

Mr. Charles Franz, consultant from Detroit, spoke on "Estimating Costs and Establishing Selling Price." In estimating cost there are three factors: Material, Labor and Burden. The burden, he feels, should be divided into proper departments as in the following summary:

Factory Costs:
- Material
- Molding Labor
- Molding Burden
- Molding Scrap Allowance
- Finishing Labor
- Finishing Burden
- Finishing Scrap

Selling and Administration

Profit

Mr. Franz also made the following points: Inspection either in molding or finishing is a direct cost but standard packaging and finishing comes under burden.

The question came up whether the same profit on plastic materials should be charged on small and large pieces. Mr. Franz felt that it should since the company is investing in material in both cases and is entitled to a return.

DETROIT SPECIAL

All of the automotive, rubber, and large companies of Detroit were represented at the May meeting of the Detroit Section to take "A New Look at Plastics"; admission, and the receipt of a reserved seat for the talks, was by invitation to the engineers of Detroit.

John DeBell of DeBell and Richardson spoke on the development of the plastics industry, with emphasis on the types of materials and the necessity for development. Charles Breskin of Modern Plastics magazine discussed many of the old and new uses of plastics and pointed up the development of new materials by mentioning a wall board developed in England, soon to be made in this country, that is made of sawdust and phenolic, with skins of either metal or paper or cloth, which can be produced continuously up to 4 feet wide at high speeds and at a cost of a fraction of that of the cheapest plywood.

CENTRAL OHIO

By W. F. YOST

The April meeting of the Central Ohio Section, S.P.E. was held in Columbus, April 16, with over fifty members and guests present.

The early part of the evening was spent in the new plant of Columbus Plastic Products. The entire group was quite impressed with the facilities for mass production of injection molded plastics, both in the custom and propietary fields. The building is planned and equipped especially for this work and the consequent efficiency in molding, fiinishing, handling, packaging an shipping of the company's products is very evident.

After the plant inspection the group enjoyed dinner at the Seneca Hotel, Columbus, as guests of Columbus Plastic Products.

After dinner the Section transacted its monthly business under the leadership of Section President L. E. Cheney. L. Monaco of Fabri-Form was appointed to the Board of Directors to finish an unexpired term.

The new prize paper contest of S.P.E. was discussed and it was announced that the Section would offer local prizes. A committee composed of K. M. Gaver, E. R. Mueller, L. A. Monaco, F. Ziesenheim, R. M. Lane, P. McBride, C. W. Lindahl and R. J. Francis, with Dr. R. L. Savage of Battelle as chairman; was appointed to stimulate participation in the contest, and make any other necessary arrangements.

Following the business meeting Gil Carpenter of Tennessee - Eastman (Dayton) introduced Mr. Frank Snyder of the Inland Division of General Motors, Dayton, who presented a very factual discussion of "Plastics in the Automotive Industry". He described the work of this group in selecting and testing materials for application in the modern automobile, and related many anecdotes illustrating the pitfalls encountered. Mr. Snyder is a Director of the Miami Valley Section of the S.P.E.

R. I. & S. E. MASS.

By F. P. STEARNS

True to form, bad weather still prevailed on the Rhode Island and Southeastern Massachusetts Section S.P.E. meeting night, but thirty odd hearty souls braved the elements on Wednesday evening, May 12, to hear Mr. Robert F. McTague speak on "The Use of Vinyl Polymers for Metal Finishing".

Following a brief history of development and chemistry involved in the reactions of Vinyl Polymers as applied to metal finishing, Mr. McTague discussed processes, and uses of fillers, fluxes, catalytic agents and primers involved in these processes of metal finishing.

Previous to the development of wash primers the best adhesion was achieved by baking. While this is still practical for some applications, speed and simplicity as well as cost and difficulties in coating various metals led to the necessity of developing the wash primers.

Mr. McTague showed samples illustrating highlights of his talk. Several illustrated the prevention of creep of corrosion by the use of wash primer. Illustrations of wear tests under extreme conditions as well as samples of application of refrigerator hinges, automotive parts, dish drain baskets, and various articles of hardware were shown. Marine usage was emphasized. The speaker claimed a boat could be coated in one day, greatly decreasing costs of refinishing.

Industrial uses such as the coating of machinery and machine tools to prevent chemical corrosion from oil, dirt, and acid conditions were discussed. A discussion period followed the talk.

It is the hope of the section that the June meeting will prove to be one of the best of the year. In addition to the law of averages giving us a pleasant meeting night, a film and talk on compression molding and preforming will be presented and a large turnout is anticipated. We have had excellent speakers and a varied and most interesting series of programs in this, our second year of operation. The section will welcome all interested in plastics engineering to this meeting and all members are urged to attend and bring a guest or guests.

SECTION NOTES

SOUTH TEXAS heard **Walter Bussart** of the Tennessee Eastman Corp., of St. Louis tell the "Story of Tenite", which was illustrated with a sound and color movie. The meeting was held June 16th at the Ben Milam Hotel.

CLEVELAND members' 'ladies' night' was the occasion for the presentation by **M. Scott-Moulton** of the $500 first prize in the National Prize Paper Contest to **Carl Snyder** for his paper on coumarone-indene resins. The presentation was followed by a talk on "The Universe of the Stars" by Dr. J. J. Nassau at the Case Institute of Technology Warner Observatory.

NORTH TEXAS was host on May 3rd to **Mr. R. R. Kay** of the Army Air Forces Procurement Division, who told of the general uses of plastics in air force work. Members **Fred Wilson, E. H. Swazey, George F. Crozier,** and **Eugene Libberts** are reported to be contributors to the Dallas Police Department cruiser XD 6987.

MIAMI VALLEY heard "A Shorter and More Economical Way to Build Molds by the Use of Beryllium Copper" presented by **Donald Koonz,** General Manager of Process Mold Engineering Co., on May 6th, at the Anthony Wayne Hotel in Hamilton, Ohio.

BALTIMORE-WASHINGTON held their third meeting June 8th at the Engineer's Club in Baltimore, to hear **H. M. Parsekian,** director of sales and technical services, chemical division, the Glenn L. Martin Co., speak on "The Martin Chemical and Plastics Program".

WESTERN NEW ENGLAND held a symposium on "Thermoplastic Molding. Problems and How They Were Solved" at their meeting June 2nd at the Hotel Sheraton in Springfield, Mass. **Sherwood Young,** of the C. F. Church Manufacturing Co., conducted the meeting, which featured as discussion speakers **Sanford Glick** of Monsanto, **George Whitehead** of Improved Paper Machinery, and **Eric Stahlberg** of Pro-phy-lac-tic Brush.

The June 11th meeting of Miami Valley was a picnic featuring a baseball game, Dayton vs. Cincinnati, horseshoes, races, golf, buffet supper, and door prizes.

CHICAGO met June 1st to hear a symposium on Mold Finishing, conducted by **Roger F. Waindle,** general manager of the Sapphire Products Division of the Elgin National Watch Co., and **Vern W. Nichols,** sales director of the Vapor Blast Manufacturing Co. of Milwaukee, Wisc.

NEW ORLEANS met at the New Orleans Hotel on May 6th to hear **John B. Molitor** of the Valite Corp., speak on "Finished Resins". An outing is planned for July.

ENESPE (Eastern New England) met May 20th to see a special demonstration of plastic testing equipment by Dr. Albert Dietz of the Massachusetts Institute of Technology.

SOUTH TEXAS met June 16 at the Ben Milam Hotel in Houston to hear Walter P. Bussart of the Tennessee Eastman Co., and see the film "The Story of Tenite". The May meeting was host to F. B. Williams of the Crown Machine Tool Co. of Fort Worth who spoke on the theory of injection molding and the development and improvement of the modern injection molding press. He had a very elaborate display of plastic products manufactured on the latest type presses. A film was also shown: "An Exact Duplicate", put out by the Gorton Machine Co.

MEXICO

By WILLIAM B. MAY, Jr.

During the month of April two meetings were held by the Section Mexico. Both of these took place in the lecture room of the Colegio Nacional de Ingenieros Quimicos. On the evening of April 5th Mr. Herbert Brach, sales manager of Bakelite de Mexico, gave a short talk as an introduction to the film, "Product Disign and Molding Technique for Thermosetting Plastics". In the course of the meeting, the discussion touched on the four basic types of compression molds, Fully Positive, Landed Positive, Semi Positive, and Flash or Overflow. It then gave some interesting and useful information on the building of molds, describing the machine shop equipment and practices commonly used. The film included photography and explanation of such techniques as preforming and the heatronic method of preheating the plastic. Some of he problems of designing, together with some of the most widely accepted principles were displayed. These included mold shrinkage, undercuts, wall thickness, tapers, ribbing, fillets and domed surfaces, flash lines, and some methods for getting the best results when holes, bosses, and threads are required in the mold.

For the second gathering of the month, held on April 19th, Mr. Robert Pfister of Goodyear-Oxo presented a paper on Synthetic Tires. He first dealt with the four major types of synthetic rubbers, Neoprene, Butyl Rubber, Buna N, and GR-S, listing their properties and the part played by the chemical and plastics companies in their development. There followed the synthetic rubber production figures accumulated during their period of wartime necessity, and some of the future plans for laboratory experimentation and the combination of these materials with natural rubber. He climaxed his lecture Through a Tire Factory" which was of great interest to all present and stimulated a very lively discussion.

It might be of interest to the National Society to know that the Seccion Mexico has again increased its membership. Once again an invitation is extended to any visiting members to speak or be present at one of our meetings. We would greatly enjoy meeting some of the States'de SPEers, so please let us know when you are in Mexico.

C. F. Church Manufacturing Co.

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